

FIG. 1

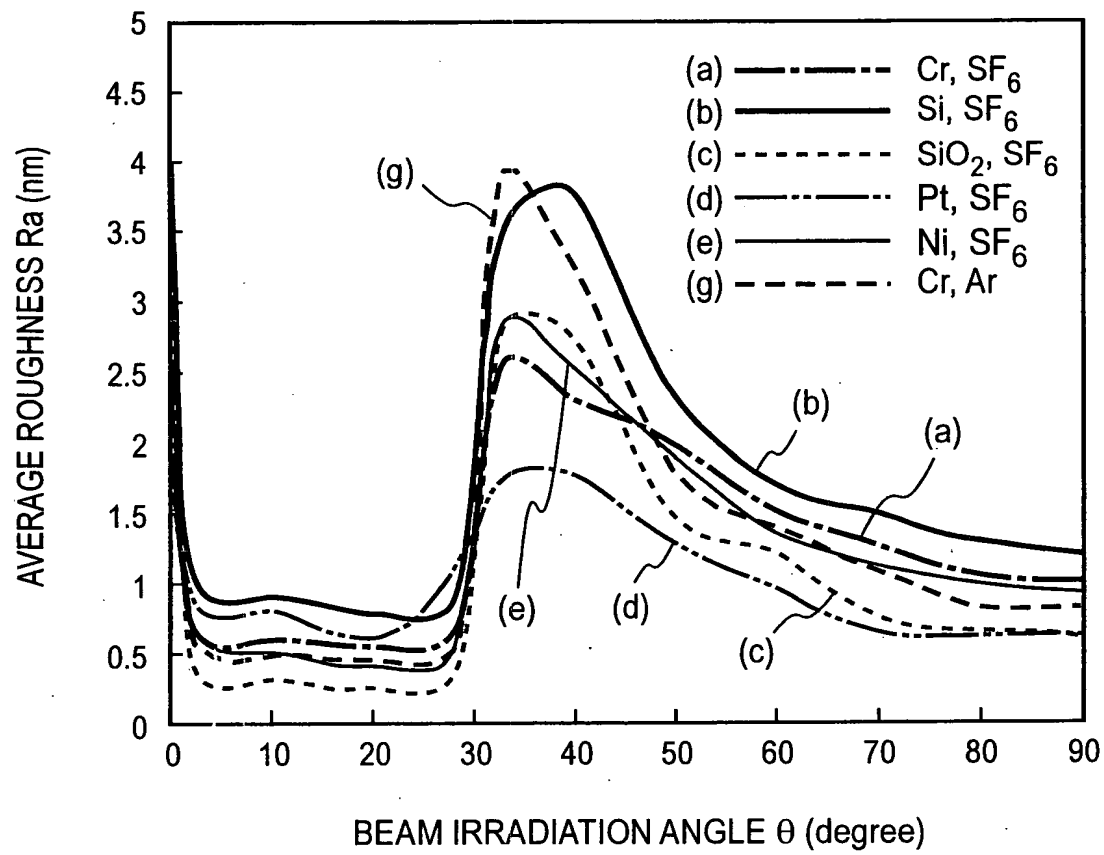


FIG. 2

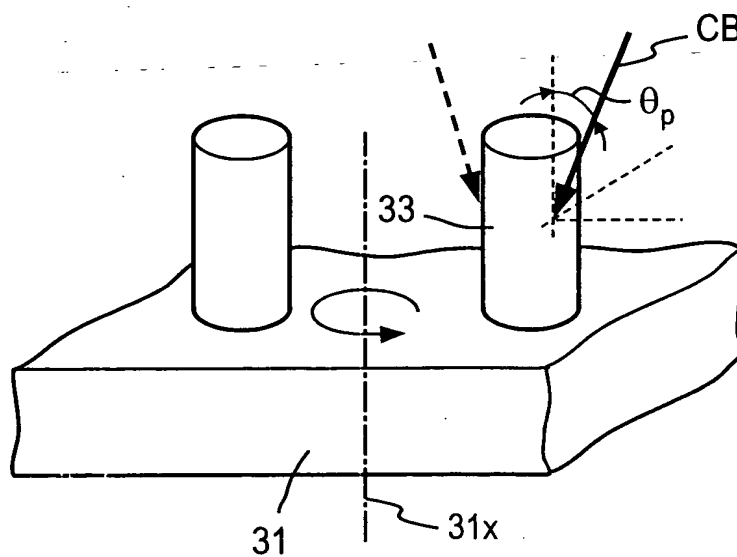
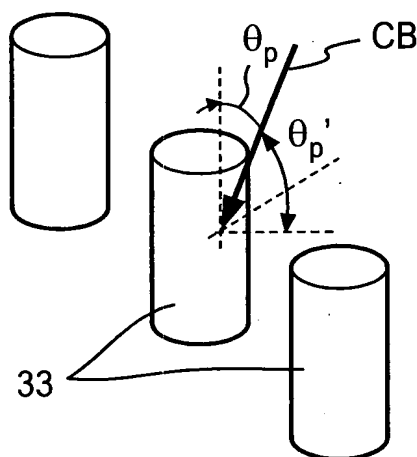
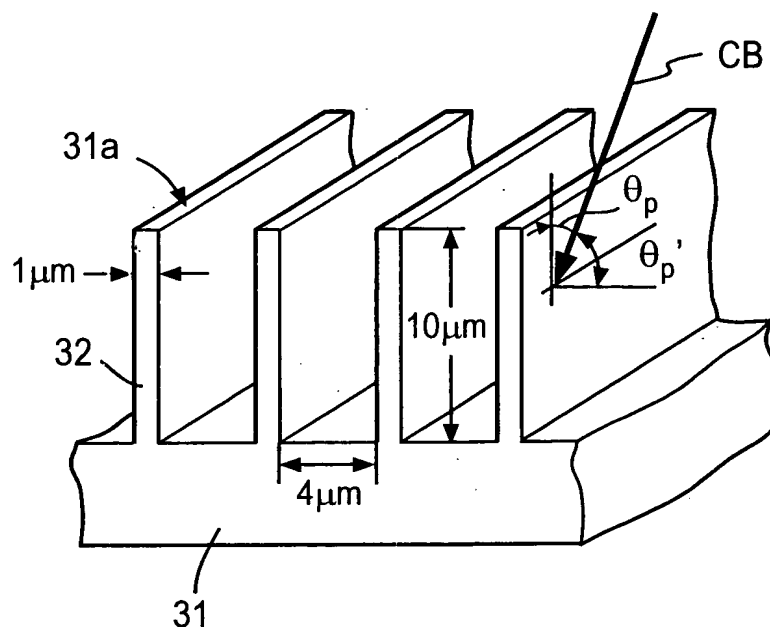


TABLE 1: EMBODIMENT 8 (SAMPLE: Si; GAS: SF<sub>6</sub>)

SMP#	FIRST STEP $\theta_p$ (deg) $\theta_{r1}$ (deg)	SECOND STEP $\theta_p$ (deg) $\theta_{r2}$ (deg)	Ra (nm)	SMP#	FIRST STEP $\theta_p$ (deg) $\theta_{r1}$ (deg)	SECOND STEP $\theta_p$ (deg) $\theta_{r2}$ (deg)	Ra (nm)
8-1	5	0	0.33	8-28	25	0	0.37
8-2	5	0	0.12	8-29	25	0	0.13
8-3	5	0	0.12	8-30	25	0	0.13
8-4	5	0	0.11	8-31	25	0	0.14
8-5	5	0	0.09	8-32	25	0	0.14
8-6	5	0	0.1	8-33	25	0	0.13
8-7	5	0	0.13	8-34	25	0	0.13
8-8	5	0	0.11	8-35	25	0	0.14
8-9	5	0	0.1	8-36	25	0	0.13
8-10	10	0	0.35	8-37	30	0	0.63
8-11	10	0	0.12	8-38	30	0	0.68
8-12	10	0	0.13	8-39	30	0	0.75
8-13	10	0	0.13	8-40	30	0	0.55
8-14	10	0	0.11	8-41	30	0	0.51
8-15	10	0	0.11	8-42	30	0	0.67
8-16	10	0	0.12	8-43	30	0	0.64
8-17	10	0	0.13	8-44	30	0	0.59
8-18	10	0	0.12	8-45	30	0	0.56
8-19	20	0	0.36	8-46	35	0	2.89
8-20	20	0	0.12	8-47	35	0	2.77
8-21	20	0	0.12	8-48	35	0	2.56
8-22	20	0	0.12	8-49	35	0	2.34
8-23	20	0	0.11	8-50	35	0	2.26
8-24	20	0	0.12	8-51	35	0	2.78
8-25	20	0	0.13	8-52	35	0	2.67
8-26	20	0	0.13	8-53	35	0	2.55
8-27	20	0	0.14	8-54	35	0	2.78

**FIG. 6** TABLE 2: EMBODIMENT 9 (SAMPLE: Si; GAS: Ar)

SMP#	FIRST STEP		SECOND STEP		Ra (nm)
	$\theta_p$ (deg)	$\theta_{r1}$ (deg)	$\theta_p$ (deg)	$\theta_{r2}$ (deg)	
9-1	10	0	10	3	0.58
9-2	10	0	10	5	0.27
9-3	10	0	10	10	0.27
9-4	10	0	10	15	0.27
9-5	10	0	10	20	0.26
9-6	10	0	10	30	0.24
9-7	10	0	10	45	0.21
9-8	10	0	10	70	0.22
9-9	10	0	10	90	0.2

**FIG. 7** TABLE 3: EMBODIMENT 12 (SAMPLE: Si; GAS: SF<sub>6</sub>)

SMP#	FIRST STEP		SECOND STEP		Ra (nm)
	$\theta_p$ (deg)	$\theta_{r1}$ (deg)	$\theta_p$ (deg)	$\theta_{r2}$ (deg)	
12-1	10	0	20	10	0.28
12-2	20	0	10	10	0.26
12-3	10	0	20	20	0.27
12-4	20	0	10	20	0.25
12-5	10	0	20	3	0.48
12-6	10	0	20	5	0.29

**FIG. 8** TABLE 4: COMPARATIVE EXAMPLE 5 (GAS: SF<sub>6</sub>)

SMP#	FIRST STEP		SECOND STEP		SAMPLE	Ra (nm)
	$\theta_p$ (deg)	$\theta_{r1}$ (deg)	$\theta_p$ (deg)	$\theta_{r2}$ (deg)		
5-1	5	0	NONE		Si	0.90
5-2	10	0			Si	0.95
5-3	20	0			Si	0.78
5-4	25	0			Si	0.75
5-5	30	0			Si	3.40
5-6	35	0			Si	3.71
5-7	10	0			Pt	0.82
5-8	10	0			Ni	0.50
5-9	10	0			SiO <sub>2</sub>	0.29
5-10	10	0			Cr	0.63

FIG. 9A

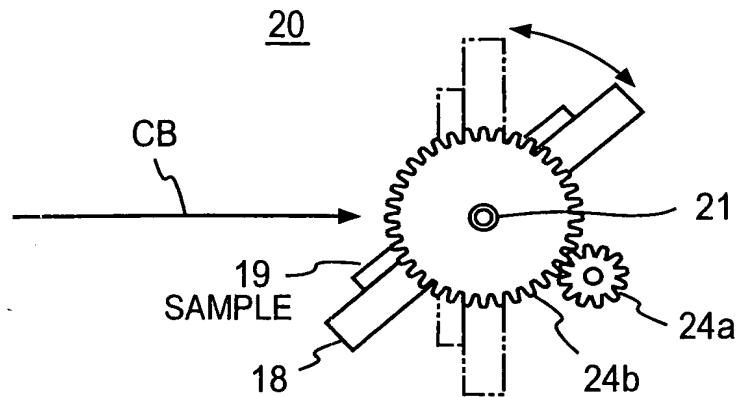
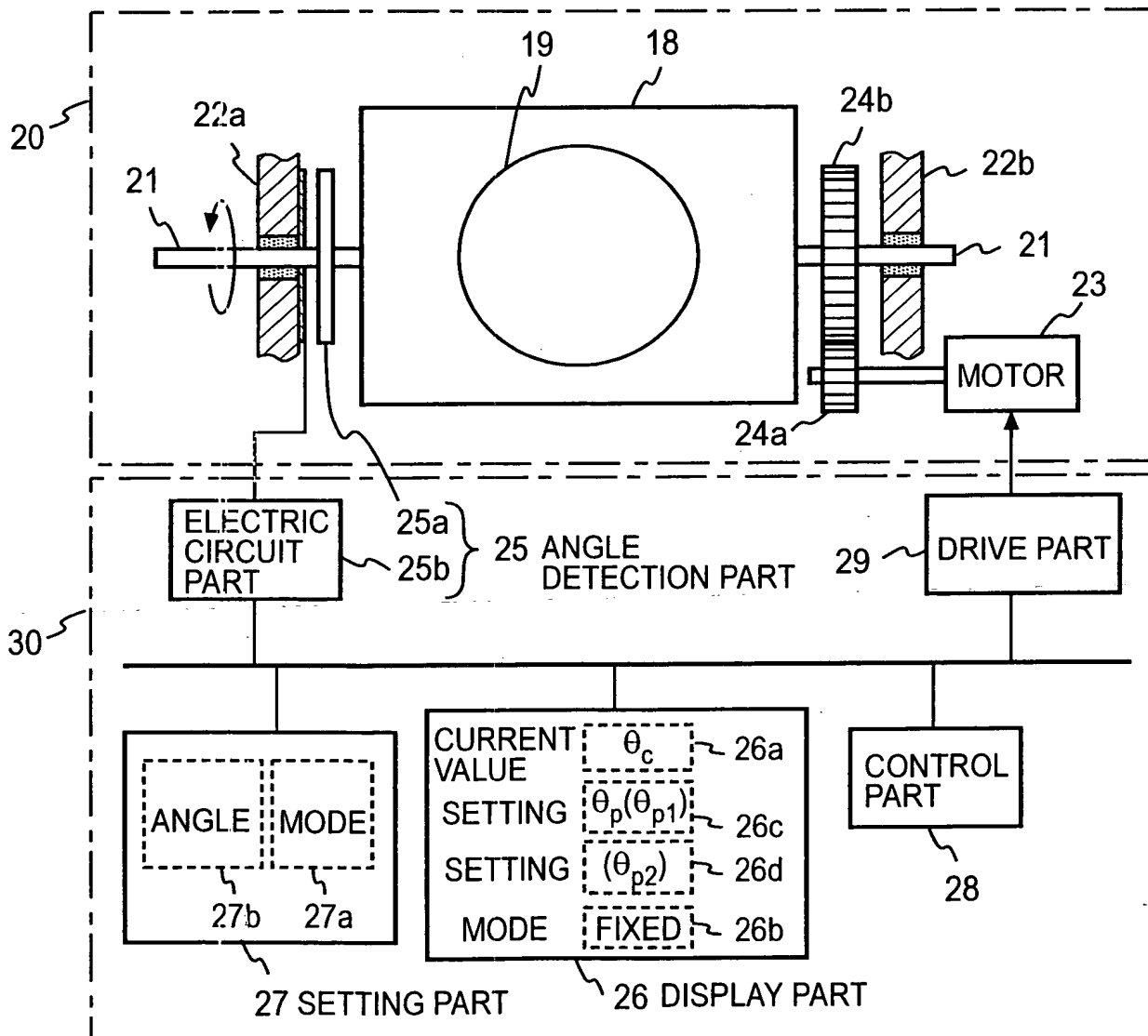
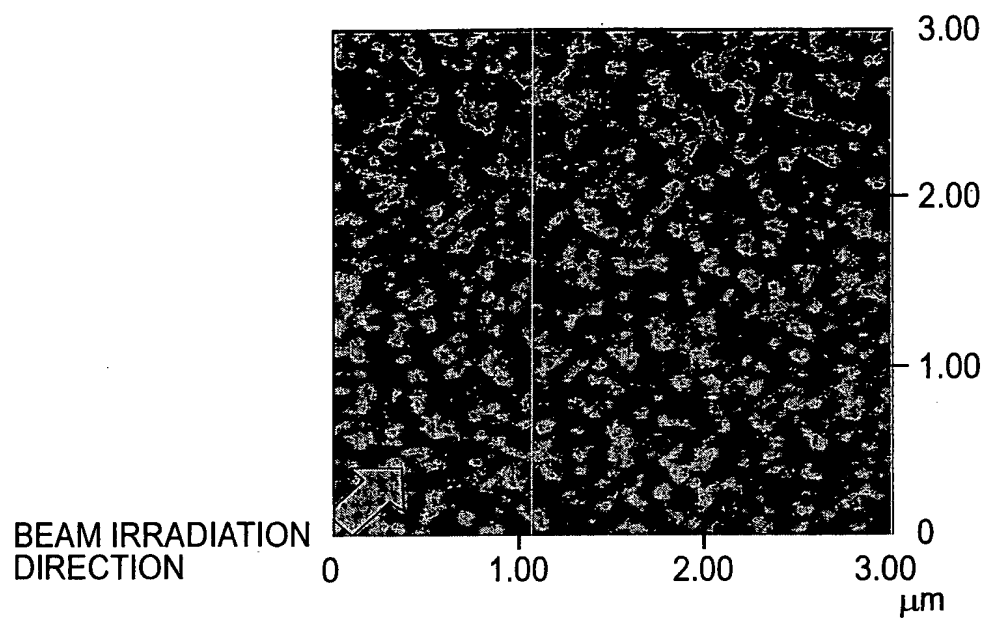


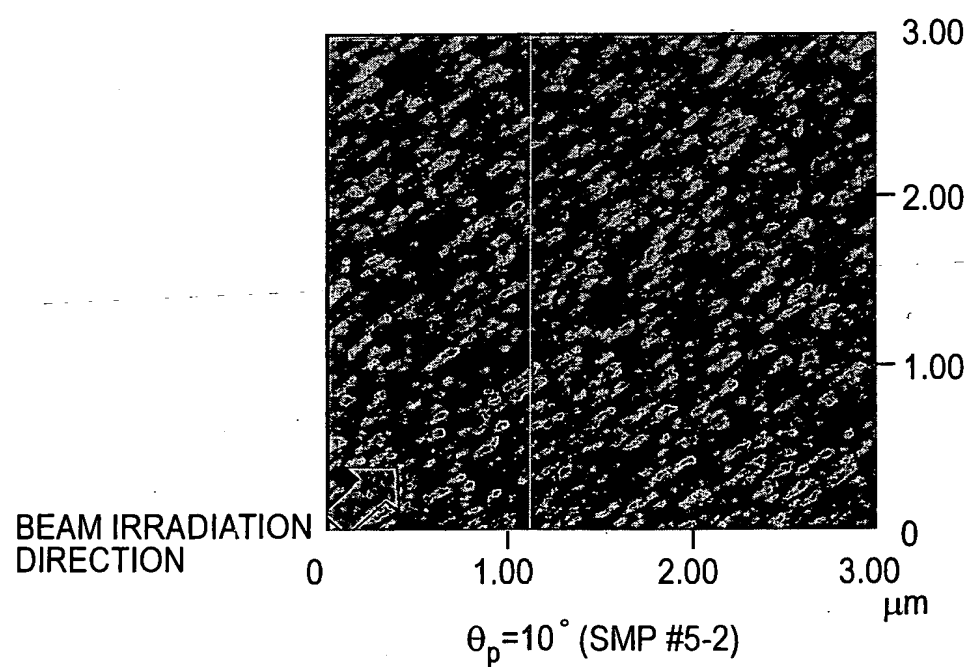
FIG. 9B





$\theta_p = 20^\circ$  (SMP #5-3)

FIG. 10A



$\theta_p = 10^\circ$  (SMP #5-2)

FIG. 10B

FIG. 11A

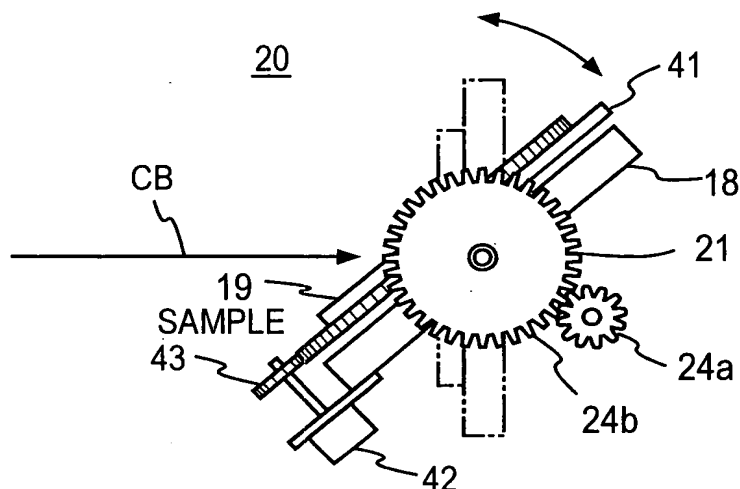


FIG. 11B

